GOVERNMENT OF INDIA
ROAD TRANSPORT AND HIGHWAYS
LOK SABHA

UNSTARRED QUESTION NO:1523
ANSWERED ON:24.11.2016
Alternate Material for NH Construction
Nishank Dr. Ramesh Pokhriyal;Thakur Shri Anurag Singh

Will the Minister of ROAD TRANSPORT AND HIGHWAYS be pleased to state:

(a) whether the Government is considering using alternative material like solid waste or rubber for the construction of highways, if so, the details thereof along with the highway projects where construction work is completed;

(b) the States where such highways using alternative raw material are planned to be constructed;

(c) whether any studies have been undertaken by the Government in this regard, if so, the details thereof; and

(d) the effects on the quality of roads?

Answer

THE MINISTER OF STATE IN THE
MINISTRY OF ROAD TRANSPORT & HIGHWAYS

(SHRI PON. RADHAKRISHNAN)

(a) to (d) Yes, Madam. Ministry encourages use of alternative materials on National Highways construction like waste plastic, rubber/polymer modified bitumen, Municipal Solid Waste (MSW), fly ash and blast furnace slag etc. It is default mode to use waste plastic modified bitumen in periodical renewals on National Highways within 50 km periphery of urban areas having population more than five lakhs. Polymer/rubber modified bitumen is used for surfacing on National Highways subject to its availability and performance. The use of solid waste is planned to be used on Delhi-Meerut Expressway after due processing and necessary clearances. Preliminary study was carried by the National Highways Authority of India (NHAI) through Central Road Research Institute (CRRI) at Ghazipur Dump Yard, East Delhi. The report submitted by CRRI found that the suitable material from MSW can be processed for its use in construction of embankment. In addition to this, Ministry has also allowed use of new/alternate materials on trial basis in National Highways projects. The use of modified bitumen improves the performance.

*****